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AN - 1997-381275 [35]
AP - JP19950327564 19951215
CPY - HARA-I
- POKK
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MC - B04-C02C B04-C02D B04-N04 B05-B02A3 B12-M11E B14-H01
M2 - [01] A220 A940 B115 B701 B713 B720 B815 B831 C101 C108 C802 C804 C805
C807 M411 M431 M782 M903 M904 M910 P633 R033; R01755-M; 1755-U
- [02] A220 A940 B115 B701 B713 B720 B815 B831 C101 C108 C550 C730 C802
C804 C805 C807 M411 M431 M782 M903 M904 P633 R033; R03521-M
PA - (HARA-I) HARADA N
- (POKK) POLA CHEM IND INC
PN - JP9165328 A 19970624 DW199735 A61K9/50 005pp
PR - JP19950327564 19951215
XA - C1997-122331
XIC - A61K-009/50 ; B01J-002/00 ; B01J-013/10 ; B01J-013/14 ; C01B-025/32
AB - J09165328 Microspheres containing a water insoluble metal phosphate,
particularly hydroxyapatite or calcium phosphate, and having average
diameters of 0.01-10 mm are used as a blood vessel occlusion agent.
The microspheres are prepared by dropping a solution containing a
water soluble phosphate, an organic polymer, particularly sodium
alginate, xanthan gum, locust bean gum, sodium carboxy-dextran,
carrageenan and/or pectin, and water in an aqueous hardener solution
containing a water soluble metal salt forming water insoluble
phosphate, and precipitating spheres containing a water insoluble
metal phosphate and organic polymer.
- USE - Used for treatment of cancer in deep organs, particularly cancer
of pancreas, liver, gall bladder or spleen, especially used as
injection preparations.
- ADVANTAGE - Inhibition of nutrient supply to cancer foci is effected
by obstructing blood vessels without injuring the inner surface of the
blood vessel. Hydrophilic organic polymer produces spheres which
absorb water soluble medicines within the spheres as a carrier of
anticancer agent.
- In an example, 0.1M (NH₄)₂HPO₄ solution containing 2 wt.% sodium
alginate was dropped in 0.5 M Ca(NO₃)₂ adjusted to pH 9 with Et₃N with
an injection needle. The spheres were collected to give spheres having
diameter of 400 microns. In abdominal cavity of anaesthetised male
Wistar rat, 21 mg of ³²P-labelled spheres were embedded and the
radioactivity of organs were determined. The radioactivity of liver
was 5, 20, 18 and 11 at 1, 6, 24 and 48 hours. The corresponding rate
in kidneys and lungs was 5, 1, 7, 15 and 11, and 1, 6, 9, and 8,
respectively, indicating remaining in abdominal cavity and effective
occlusion of blood vessels.(Dwg.0/0)
CN - R01755-M R03521-M
DRL - 1755-U
IW - MICROSPHERE TREAT CANCER DEEP ORGAN CONTAIN WATER INSOLUBLE METAL
PHOSPHATE BLOOD VESSEL OCCLUDE

**IKW - MICROSPHERE TREAT CANCER DEEP ORGAN CONTAIN WATER INSOLUBLE METAL
PHOSPHATE BLOOD VESSEL OCCLUDE**

NC - 001

OPD - 1995-12-15

ORD - 1997-06-24

PAW - (HARA-I) HARADA N

- (POKK) POLA CHEM IND INC

**TI - Microspheres for treating cancer in deep organs - contain water
insoluble metal phosphate for blood vessel occlusion**